

# 19-Pin SIP 16-Tap High Performance Passive Delay Modules

- Fast Rise Time, Low DCR
- High Bandwidth  $\approx 0.35 / t_r$
- Low Distortion LC Network
- 16 or 20 Equal Delay Taps
- Standard Impedances: 50 - 75 - 100 - 200  $\Omega$
- Stable Delay vs. Temperature: 100 ppm/ $^{\circ}C$
- Operating Temperature Range  $-55^{\circ}C$  to  $+125^{\circ}C$

## OPERATING SPECIFICATIONS - Passive Delays

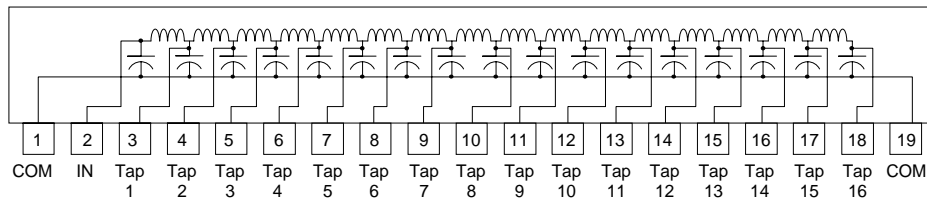
Pulse Overshoot (Pos) .....	5% to 10%, typical
Pulse Distortion (S) .....	3% typical
Working Voltage .....	25 VDC maximum
Dielectric Strength .....	100VDC minimum
Insulation Resistance .....	1,000 Megohms min. @ 100VDC
Temperature Coefficient .....	100 ppm/ $^{\circ}C$ , typical
Band Width ( $f_c$ ) .....	.35/tr approx.
Operating Temperature Range .....	$-55^{\circ}$ to $+125^{\circ}C$
Storage Temperature Range .....	$-65^{\circ}$ to $+150^{\circ}C$

## Electrical Specifications <sup>1,2,3</sup> at 25 $^{\circ}C$

Total (ns)	Tap-to-Tap (ns)	50 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)	75 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)	100 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)	200 Ohm Part Number	Rise Time (ns)	DCR max. (Ohms)
8 $\pm$ 0.5	0.5 $\pm$ 0.2	SIP16-85	2.1	0.8	SIP16-87	2.2	0.8	SIP16-81	2.2	1.0	SIP16-82	2.9	1.2
12 $\pm$ 1.0	0.75 $\pm$ 0.3	SIP16-125	2.5	1.0	SIP16-127	2.5	1.1	SIP16-121	2.7	1.1	SIP16-122	3.4	1.4
16 $\pm$ 1.0	1.0 $\pm$ 0.4	SIP16-165	3.7	1.0	SIP16-167	3.7	1.1	SIP16-161	3.8	1.2	SIP16-162	5.3	1.9
20 $\pm$ 1.0	1.25 $\pm$ 0.5	SIP16-205	3.9	1.2	SIP16-207	3.9	1.3	SIP16-201	3.9	1.4	SIP16-202	7.8	2.3
24 $\pm$ 1.2	1.5 $\pm$ 0.5	SIP16-245	4.4	1.3	SIP16-247	4.4	1.5	SIP16-241	4.4	1.6	SIP16-242	8.6	2.7
32 $\pm$ 1.6	2.0 $\pm$ 0.5	SIP16-325	4.9	1.4	SIP16-327	4.9	1.6	SIP16-321	4.9	1.8	SIP16-322	9.8	3.3
40 $\pm$ 2.0	2.5 $\pm$ 0.5	SIP16-405	5.8	1.5	SIP16-407	5.9	1.9	SIP16-401	5.9	2.1	SIP16-402	11.0	3.9
48 $\pm$ 2.0	3.0 $\pm$ 0.5	SIP16-485	7.1	1.6	SIP16-487	7.1	2.1	SIP16-481	7.1	2.7	SIP16-482	11.5	4.5
56 $\pm$ 2.8	3.5 $\pm$ 1.0	SIP16-565	8.2	1.7	SIP16-567	8.2	2.3	SIP16-561	8.2	2.9	SIP16-562	12.2	4.7
64 $\pm$ 3.2	4.0 $\pm$ 1.0	SIP16-645	9.4	1.8	SIP16-647	9.4	2.5	SIP16-641	9.4	3.0	SIP16-642	14.6	5.1
80 $\pm$ 4.0	5.0 $\pm$ 1.0	SIP16-805	11.6	2.8	SIP16-807	11.8	2.8	SIP16-801	11.8	3.2	SIP16-802	17.3	5.4
128 $\pm$ 6.4	8.0 $\pm$ 2.0	SIP16-1285	18.2	3.0	SIP16-1287	18.5	3.0	SIP16-1281	18.5	3.4	SIP16-1282	23.2	5.8

1. Rise Times are measured from 10% to 90% points.
2. Delay Times measured at 50% points of leading edge.
3. Output (100% Tap) terminated to ground through  $R_L = Z_0$

SIP16 Style 16-Tap Schematic



Dimensions in Inches (mm)

